

THE BULLETIN

MAY 25, 1993 ~ 46TH YEAR ~ NUMBER 19

U of T Likely Site for Fields Math Institute

BY KARINA DAHLIN

U OF T HAS RECEIVED TENTATIVE approval as the permanent home of the Fields Institute for Research in Mathematical Sciences. The result of a vote by mail ballot — the last stage of the approval process — will be announced next month.

The vote is being conducted among the 31 members of the institute's council. Already the site selection panel and the institute's board of directors have endorsed Toronto as the best place for the institute, temporarily located at the University of Waterloo.

The tentative approval is welcome news. "We are doing cartwheels," said Professor Derek Corneil of the Department of Computer Science and chair of the University's transition team. "A lot of very hard work went into this. Having the Fields institute here will be a tremendous advantage to so many aspects of the University, from the undergraduate and graduate students to research visitors and faculty. The Fields institute will draw an incredible amount of international expertise."

Professor Steven Halperin of the Department of Mathematics, a key figure in the negotiations, said U of T

succeeded because of the quality of its faculty in mathematical sciences and the commitment of the University's senior administrators who recognized the importance of the facility.

The institute has a staff of 10 and an annual budget of \$2.2 million. It operates independently but collabo-

rates with the host university in a number of ways. For \$500,000 a year U of T will supply housing, financial and human resources services, communications facilities and other assistance. The institute may be housed in either the Boys' & Girls' Library at 40 St. George St. or new

quarters on Spadina Ave. next to the Koffler Institute for Pharmacy Management or on a Russell St. site. The move is expected to take place Sept. 1, 1994.

Established in 1991 by U of T

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Medical Schools Protest Fee Cut

BY DAVID TODD

MEDICAL EDUCATORS ARE Afraid that the Ontario government's cost-cutting plans will have devastating effects upon the entire provincial health care system, including faculties of medicine.

The deans of the five medical schools have added their voices to the chorus of protest that has greeted government proposals for curbing health care expenditures. They have written an open letter to Premier Bob Rae calling for a discussion of better ways to achieve savings within the health sector.

The most controversial of the proposals would see the current fees for most new family doctors, paediatricians and psychiatrists slashed by 75 percent, a move that would effec-

tively prevent them from practising in Ontario. Dean Arnold Aberman of the Faculty of Medicine said it is up to the medical community to make the government understand that this plan is unacceptable. "The idea that the generation responsible for the provincial deficit would then turn around and ask a new generation to shoulder the burden is astonishing," he said.

The measure is one component of a larger package of spending reductions that the Ministry of Health plans in the area of physician services. The package forms part of the \$4 billion expenditure control plan announced by the government in April.

To support its fee proposal,

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MORE BUDGET BLUES

THE ONTARIO BUDGET SPREADS the pain far and wide — and the University of Toronto will receive its portion.

Finance Minister Floyd Laughren announced May 19 that the province will expand its retail sales tax to cover a variety of previously excluded items, including insurance. This means the University's group life and health insurance plans will now be subject to taxation. Marty England, research and planning officer in the office of the assistant vice-president (planning), estimated that this measure will cost the University an additional \$1.2 million.

The \$1.63 billion in tax hikes outlined in the provincial budget represents the third component of the government's strategy to bring its deficit under control. The province also intends to save \$4 billion by implementing the expenditure control plan that it unveiled April 23 and another \$2 billion by negotiating a social contract with workers and em-

ployers in the broader public sector. The budget includes both of these initiatives.

The various measures detailed in the expenditure control plan — including a 0.8 percent reduction in operating grants to universities for 1993-94 — will leave U of T with approximately \$8 million less than previously anticipated. The government expects the social contract process to yield \$118 million in university payroll reductions, approximately \$25 million of which will come from U of T. Representatives from universities and colleges discussed the social contract with government negotiators May 21.

The administration is still attempting to assess the possible implications of one of the government's planned spending control measures — a reduction of its subsidy on prescription drugs for senior citizens. England said that such a move could load additional costs onto the University's health plan.

A Feast for the Mind



About 80 people browsed through the scholarly tomes on display at the humanities and social sciences book fair May 10. The third annual fair, held in the debates room at Hart House, featured the works of more than 100 authors who had books published in 1992-93. The Faculty of Arts & Science organized the event.

\$1 Million Grant Targets Vietnam

BY SUZANNE SOTO

A \$1 MILLION GRANT WILL enable U of T to help Vietnam stave off environmental problems caused by rapid economic growth.

The Canadian International Development Agency (CIDA) will give the Department of Geography and the Institute for Environmental Studies \$200,000 annually for the next five years to assist in training Vietnamese academics and government officials in environmental management principles. Salaries, office

space and support services from U of T and Vietnam's National Institute for Scientific & Technological Forecasting & Strategy Studies will amount to another \$1 million.

"CIDA approved everything we asked for and we are really pleased," said Professor Joseph Whitney of geography and environmental studies, the project's director.

Whitney said CIDA's funding is timely. Vietnam, on the verge of "economic takeoff," is very interested in developing ways to deal with imminent problems such as air pol-

lution and waste disposal. "Within the next 10 years Vietnam is going to follow the other 'little dragons' like Taiwan, Hong Kong, Thailand and Indonesia in a path of very rapid economic development. This is a wonderful opportunity to go there before things start going downhill as a result of that growth."

At this early stage, Whitney said the project has two main goals. The first is to help Vietnam create a system of environmental and resource

~ See \$1 MILLION: Page 2 ~

IN BRIEF



Seven receive URIF funds

SEVEN U OF T RESEARCHERS HAVE RECEIVED NEARLY \$700,000 IN THE latest round of grants awarded by the provincial government's University Research Incentive Fund. The fund supports university researchers who are co-sponsored by corporate partners. Receiving grants worth \$200,000 are: Professors Stefan Zukotynski of the Department of Electrical & Computer Engineering for a project with ABB Advanced Battery Systems, Inc.; Douglas Reeve of the Department of Chemical Engineering & Applied Chemistry, with Sterling Pulp Chemicals/Consortium; and Reeve and Grant Allan, also of chemical engineering and applied chemistry, for a second Sterling Pulp project. Professor Mitchell Winnik of the Department of Chemistry will receive \$36,750, with De Havilland Inc.; Uwe Ackermann of the Department of Physiology, \$32,430, with Ciba-Geigy, Canada; Dennis Smith of the Faculty of Dentistry and the Centre for Biomaterials, \$15,000, with 3M Canada, Inc.; and Thomas Coyle of the Departments of Chemical Engineering & Applied Chemistry and Metallurgy & Materials Science, \$12,000, with National Electrical Carbon Canada.

Honorary degrees awarded

TWO U OF T PROFESSORS ARE BEING HONOURED BY OTHER UNIVERSITIES. Professor Julia Ching of the Departments for the Study of Religion, Philosophy and East Asian Studies, received an honorary doctor of humane letters from St. Andrew's Presbyterian College in Laurinburg, North Carolina, May 8. Professor Brian Greenwood of geography at Scarborough will receive an honorary doctor of philosophy degree from the University of Uppsala in Sweden June 4. Ching is the author of several books including *Probing China's Soul: Religion, Politics, Protests*. Greenwood has built an international reputation as an environmental scientist who specializes in the study of coastal erosion.

Suspicious fire investigated

THE ONTARIO FIRE MARSHAL'S OFFICE IS INVESTIGATING A SUSPICIOUS fire at U of T that caused an estimated \$30,000 in damages. Ron Lewis, the University's fire prevention officer, said arson is suspected in the fire that occurred May 6 around 5 p.m. A stationery cabinet in a third-floor classroom at the Faculty of Education was set ablaze and the building had to be evacuated while city firefighters extinguished the flames. Lewis said the marshal's office took samples from the fire but it will probably be several months before the investigation is completed.

Craik wins psychology award

PROFESSOR FERGUS CRAIK OF THE DEPARTMENT OF PSYCHOLOGY HAS won the American Psychological Society's 1993 William James Fellow Award. The award is among the highest honours given by the society. It is given to distinguished researchers who have made significant contributions to the science of psychology. Craik is renowned for his work on human memory and learning.

Phillips heads engineers' council

PROFESSOR JANE PHILLIPS OF THE DEPARTMENT OF CHEMICAL Engineering & Applied Chemistry and an associate dean of the School of Graduate Studies has been elected president of the Council of Professional Engineers of Ontario. She took office April 23. Phillips will direct the governing council, a group of 17 elected members and nine government appointees. The association sets standards and regulates the practice of more than 61,000 professional engineers in the province.

UTSA changes policy

NEW U OF T STAFF ASSOCIATION (UTSA) MEMBERS WILL HAVE TO wait 30 days after joining UTSA to become eligible to use its grievance procedures and office staff resources. This change in constitutional policy, approved at the April 28 UTSA general meeting, is meant to discourage employees from joining the association only when they need immediate job-related assistance. Dilu Irani, vice-president (grievances), said that in the past year, 59 people with serious employment problems sought UTSA's help. About a dozen signed UTSA cards on the spot. Since investigating each case puts enormous stress on resources, long-standing members should be helped first, she said.

U of T Likely Site for Math Institute

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and McMaster and Waterloo Universities, the institute is funded mainly by the Ontario government and the Natural Sciences & Engineering Research Council. Its mandate is three-fold: to promote leading-edge research in the mathematical sciences, to increase opportunities for graduate and post-doctoral training and to foster interaction between university-based research and industry. The institute also serves as a resource for mathematics education at all levels.

Seven Ontario universities offered to provide a permanent site for the institute. The site selection panel judged proposals on 12 points. In the category of intellectual criteria

U of T was found to have "the greatest research breadth and depth overall." The scale and quality of Toronto's capability, both in mathematics and in related areas such as computer science and electrical engineering "leave little doubt as to its lead ranking," the report said.

The panel also considered the level of interdisciplinary work and on this count it found U of T somewhat wanting. While the mathematics department here is "deep and excellent" it appeared less committed to applications of mathematics than once had been the case, the report said. "On the other hand, there are several very strong centres of applied mathematical work at Toronto including the engineering faculty,

computer science and the Canadian Institute for Theoretical Astrophysics. Thus, there is excellent potential for the Fields Institute to build interdisciplinary bridges of the kind contemplated in its mandate."

The panel also believed that U of T is in the best position to attract "eminent directors of high international stature." If the current director, Professor Jerrold Marsden of the University of California at Berkeley, decides to stay with the institute for a five-year term from July 1, 1994, the University will offer him a tenured professorship. Marsden has a tremendous international reputation, said Corneil. "It's a major coup if we are able to land him. He is an outstanding mathematician."

Medical Schools Protest Fee Cut

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expected to produce close to \$120 million in savings over five years, the government has produced figures suggesting that Ontario has 1,857 more general and family practitioners than it needs. Only five counties are deemed to suffer a shortage; under the proposal, new family doctors in these areas would be exempt from the fee reduction. However, that adds up to just 45 positions in all of Ontario. Approximately 240 young physicians graduate from family medicine programs in the province each year and for most the employment picture looks grim.

Professor Walter Rosser, chair of the Department of Family & Community Medicine, warned that many of the people in the residency training program at U of T, as well as those preparing to begin their first year in July, may leave to join programs in the US. Future students will have little incentive to consider a career in family medicine. "I wouldn't be surprised if we have no applicants for our program next year."

The proposal will drive as many as 1,000 currently practising family physicians out of the province and

will bar nearly 1,200 new doctors from entering the Ontario system over the next half-decade, Rosser predicted. The result will be a severe shortage of general and family practitioners within a few years. Small communities in rural and northern Ontario, which often rely heavily on the services of young physicians, will be hit particularly hard, he said.

According to the province's estimates, Ontario also has a surplus of 293 psychiatrists and 339 paediatricians. New practitioners in these fields have been targeted for the fee "discount" as well. Professor Robert Haslam, chair of the Department of Paediatrics, said the government plan will undo recent efforts by the medical faculty to interest students in child health care.

"I feel frustrated and angry for the young men and women that we have attracted to our program and who now are asking whether there will be any sort of job for them when they finish," Haslam said.

Kelly Emerson, an executive member of the Professional Association of Interns & Residents of Ontario, said the figures offered by the province as evidence of an over-supply of physi-

cians are "fundamentally flawed." For its estimate of the current number of general and family practitioners in Ontario (10,200), the government simply looked at those registered, she argued, and did not bother to find out how many are actively practising.

Emerson, a first-year family medicine resident currently training in Timmins, said the fee cuts will also stand in the way of a trend towards greater representation of women in the medical profession. At present, she pointed out, 80 percent of the women graduating from Ontario's medical schools are in the three specialties targeted.

Ontario's medical faculties also fear that they could suffer a cut to their budgets of as much as 30 percent as a result of the expenditure control plan and government efforts to negotiate a social contract for the broader public sector. The medical schools have four main sources of funding — university transfer payments, support from the teaching hospitals, the Ministry of Health clinical education budget and clinical earnings of physicians — all of which will be affected by the government's various deficit-control strategies.

\$1 Million Grant Targets Vietnam

~ Continued from Page 1 ~
accounting such as those being developed in Canada and some European countries. In its simplest form, this system tries to put a dollar figure on the damage that economic growth inflicts on the environment and natural resources. This provides governments with a more accurate picture of the effects of growth, he explained.

The second goal is to assist the Vietnamese in producing state-of-the-environment reports. These documents would give "snapshot pictures" of the environment, measured through such indicators as air and water quality and the amount of arable land and endangered species in a region. The reports could be used by government officials to curb or halt environmental degradation.

The project, Whitney said, is a collaborative effort. For nearly two years U of T and Vietnamese researchers have worked closely in

drawing up the project's objectives. This summer two Vietnamese officials come to Toronto to help put together a five-year plan.


The project starts in January. About a dozen U of T researchers and several graduate students will travel to Vietna. They will help to train about 80 Vietnamese, 10 of

whom will receive further local training, enabling them to teach others. Another 300 provincial and central government personnel will be able to take two-week courses on environment and development issues. Four Vietnamese officials will do graduate work at U of T in environmental studies and planning.

UNIVERSITY OF TORONTO

THE BULLETIN

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SkyDome — the Sequel?



In the 1980s members of U of T's civil engineering department conducted extensive research relating to SkyDome's famous retractable roof. Catherine Cassidy, a master's student in civil engineering, is continuing this research on square steel tubes in the department's structural testing laboratories. She studies the welds in a steel tube connection that will be pulled apart by a 300-ton machine.

Waste Not, Want Not

SQUANDERERS AND LITTERBUGS Beware — the Office of Waste Management has taken a giant step towards making the campus a garbage-free zone.

The office has declared the 11-floor building at 215 Huron St. the University's first "zero-waste" structure. The building houses various departments including human resources and facilities and services.

Recycling coordinator Barbara Schaefer said that despite some recycling, the building still generates a tonne of waste a week. She would like to reduce that amount to 150,000 kilograms a week — an 85 percent cut. To that end Schaefer went through the building on May 19 and "turned lives upside down."

With the help of assistants, she removed nearly 400 waste baskets from hallways, offices and work spaces. To prevent "withdrawal

symptoms," she replaced the containers with a smaller version of blue recycling bins. The bins have tiny waste baskets that are less than a quarter of the size of a regular basket.

More than a dozen paper-towel dispensers were yanked and replaced with those with a hand towel. Schaefer said another eight hand-towel units would be installed soon. Washrooms, she added, are already equipped with air hand-dryers.

The use of styrofoam plates or cups will be seriously frowned upon but Schaefer placed styrofoam recycling bins on four floors to ease the phasing-out period. "We'd prefer people didn't use styrofoam at all and we'd rather not see it, but...."

While most took the changes in stride, Schaefer said there were more than a few unhappy faces at the end of the day. "Many didn't really like

the idea of losing their large garbage cans because some people use the heavy metal ones as footrests," she explained philosophically.

Over the next couple of months her office will mount an intensive waste reduction and elimination campaign entitled "Setting the pace for no waste." The Huron St. building will undergo a waste audit to determine results. Schaefer said that recycling efforts in other parts of the University over the past year have led to an "astonishing" 36 percent decrease in waste headed for landfill sites. She is confident that 215 Huron will live up to its challenge to work towards zero-level waste.

Schaefer is eyeing Simcoe Hall as the next possible zero-waste building. She added, however, that if other campus buildings want to participate, they should contact her at 978-7080.

UTS Examines Its Options

BY DAVID TODD

UNIVERSITY OF TORONTO Schools, faced with the elimination of its government grant next year, has arrived at a watershed in its history, says Principal Alan Fleming.

The future of UTS is under examination by a task force that includes student, staff, parent and alumni representatives. Fleming, who serves on the group, said that in the long term the school is unlikely to retain its present form. "This is an opportunity for us to define our role once and for all and to determine the goals and structures that will work for us," he said in an interview.

The task force was established after UTS learned April 23 that it will lose its annual grant of \$1.3 million from the province in 1994-95. Dr. John Evans, former president of the University and an alumnus of UTS, has been appointed chair of the group that will study the options available to the school and propose the best direction to take. The issue of alternative sources of financing will receive particularly close attention.

Task force members have been meeting on a weekly basis and hope to be ready to make recommendations by mid-June at the latest. Parents and students, meanwhile, are organizing to take political action against the government's move.

Fleming said that UTS needs to ensure its future stability and remain accessible to all who meet the academic criteria for admission. The government, he complained, has made it extremely difficult to achieve these goals by giving the school just 12 months to prepare for elimination of the grant. "It's almost impossible to come up with a scheme that's going to make us self-sufficient a year from now — other than be-

coming a very obvious private school, which I don't think is on anybody's agenda."

UTS is a public school, Fleming said, and staff believe strongly in preserving that status. The institution, established in 1908 as a laboratory school for student teachers, receives 44 percent of its operating revenues from the province. An annual tuition fee of \$3,500 for each of the school's 450 students accounts for the remainder of its \$3.2 million budget.

The task force held a public meeting in the Faculty of Education auditorium May 13 when members fielded questions from an audience of about 150 parents and students. A number called for a concerted effort to build public support for the school and demonstrate to the government the error of its ways.

"I'm angry," said parent Lisa Slater who has two children attending UTS. "Parents, students and teachers have to mobilize. I think we should march on Queen's Park. Somebody has to say to Bob Rae: 'No more! You're making a mistake.'" Slater also suggested that if UTS brought forward a reasonable long-term plan to gain financial independence, the province might be persuaded not to drop the grant completely next year — a move that would buy the school a little more time.

Evans said that parents and alumni must demonstrate their support for the school. He spoke critically of the alumni, describing their financial contributions over the years as "pathetic." Graduates, he said, have tended to assume that since UTS is part of the public system, it can subsist without their support. "If people really value what they got out of the school, they should be putting a lot more into it," he argued.

Contributions from alumni total approximately \$80,000 a year.

Graff Appointed

AIDA GRAFF HAS BEEN APPOINTED as the University's status of women officer for a three-year term beginning July 1.



Aida Graff

Graff is a member of the Ontario anti-racism advisory working group and was recently appointed to the

Ontario Cabinet Round Table on Anti-Racism. She has also worked with the Coalition of Visible Minority Women, the Arab Community Centre of Toronto and other groups.

She was dean of women at Victoria College from 1976 to 1990 and assistant to the master of Massey College in 1992. The daughter of an Egyptian diplomat, Graff was born in Japan. She studied at Cairo University where she obtained a master's degree in English. Subsequent studies in comparative literature earned her an MA at Manchester University and a PhD at U of T.

The status of women office is located in Simcoe Hall and Graff will report to the president. The position is full-time as it was when Lois Reimer retired last year.

Meanwhile Professor Rona Abramovitch of psychology at Erindale serves as acting status of women officer until June 30.

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Fran Morris to Retire

Fran Morris, who joined the staff of the Faculty of Medicine on January 1, 1952 and has been Faculty Secretary since 1966, will retire on June 30, 1993. A reception to acknowledge Fran's 41 years of service to the Faculty will be held from 3 to 5 p.m. on June 25, 1993. All of Fran's friends and former colleagues are invited to join in this celebration. If you plan to attend, please call Caroline Turenko at 978-6585 by June 18.



FACULTY OF
MEDICINE



Reception for Retiring Faculty and Staff

President J. Robert S. Prichard will host a Reception for members of the faculty and staff who are retiring at the end of this academic session. It will be held in the Hart House Quadrangle on Friday May 28, 1993 from 4:00 pm to 6:00 pm. In the event of inclement weather, the reception will be moved to the East Common Room.

Friends and family of the honoured guests, and all members of the University community, are cordially invited to attend.

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Spalding Gray will be autographing copies of his novel *Impossible Vacation* in the theatre lobby following his performances. Signing sponsored by the U of T Bookstore.
Other books by Spalding Gray:
Monster In A Box; Sex & Death to the Age 14; Swimming to Cambodia.



Effects of Silicone Breast Implants Studied

BY SUZANNE SOTO

WOMEN WITH SILICONE GEL breast implants are the focus of a U of T study that will assess the amount of silicone in their bodies and the level at which it could be a health hazard.

Researchers will measure silicone content in the blood, urine and breast tissue of approximately 100 women, half of whom have or had implants, says Professor Dennis Smith of the

Faculty of Dentistry and the Centre for Biomaterials, coordinator of the study that began this month. The milk of nursing women with implants will also be examined.

The control group will consist of those who have never had implants. All the women will be drawn from a list of volunteer patients at Women's College and Wellesley Hospitals.

Smith said the principal aims of the year-long study are to determine if silicone gel leakage from intact

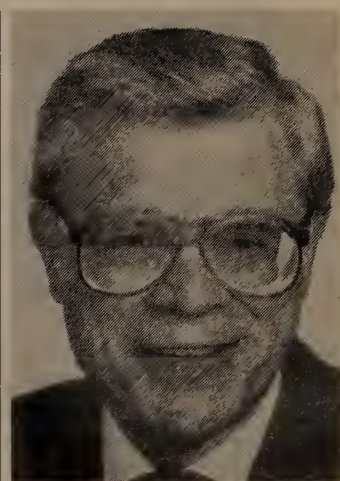
implants has occurred, how much silicone is present in body fluids and tissue and at what level, if any, it causes serious health problems. It is possible that silicone could be present to some extent in all groups, he noted. While it is not found naturally in the body, silicone is used in some pharmaceutical products and as coating on devices such as syringes and catheters.

The study is funded by a \$180,000 grant from Dow Corning Corp. of

Michigan. Dow, the major manufacturer of breast implants, ceased such production last year following thousands of complaints and lawsuits in the US. The company has established a \$10 million fund to investigate the health effects of implants.

Between 100,000 and 200,000 Canadian and more than one million American women have silicone breast implants. About 80 percent have them for breast augmentation, the remainder receive implants after breast cancer surgery. In the past few years thousands of women have reported problems with the devices. These range from rupture and leakage to a suspected link with connective tissue diseases such as lupus, rheumatoid arthritis and scleroderma, a degenerative skin disorder.

To date several studies on the potential connection between implants and various diseases have yielded conflicting results. Earlier this year Professors Walter Peters of the Department of Surgery and chief of plastic surgery at Wellesley Hospital, Edward Keystone of the Department of Medicine and the rheumatology unit at Wellesley and Smith released findings of one such study. They monitored 500 women with breast implants over a two-and-a-half-year period and concluded that those with implants had an equal chance of acquiring connective tissue diseases as those without. Both groups exhibited



Dennis Smith

a one in 100 chance of developing rheumatoid arthritis and one in 10,000 chance of scleroderma.

On the other hand a University of California study released in March examined 100 women with implants and found that 35 had antibodies to collagen, a possible precursor to scleroderma. Studies on laboratory rats have also shown a link between silicone and negative immune system reaction.

Further studies must be carried out in light of these contradictory findings and the increasing concern expressed by women with implants, Smith said. It is necessary to discover if there is a significant problem especially since more women are considering having implants removed.

Mystery of Radio Galaxy Solved

BY DAVID TODD

AN ANALYSIS OF THE LIGHT from a distant galaxy may provide the solution to a puzzle that has troubled astronomers for the past several years, a U of T researcher says.



Steve Eales

Professor Steve Eales of astronomy at Erindale and a team of British, French and American scientists have been studying the radio galaxy B2 0902+34, a body previously thought to be quite old. Their findings, however, suggest that this object is actually a young galaxy.

"It's got all the characteristics of a galaxy that's in the process of formation," said Eales in an interview following publication of the study in the May 13 issue of *Nature*. The results were based on observations made using the United Kingdom Infrared Telescope on Mauna Kea in Hawaii early last year.

One of the issues of particular interest to cosmologists at present is the process by which galaxies form. To

explore this question, researchers are peering out into the far reaches of the universe. At such immense distances it is possible to see galaxies as they appeared when the universe was just a fraction of its present age, perhaps a billion years after the vast explosion of dense matter and energy called the Big Bang.

The bodies detected from this early period are known as radio galaxies because of the powerful radio emissions they send out into space. One of these is B2 0902+34 which was discovered by Professor Simon Lilly of the Department of Astronomy in 1988. Its light has taken 12 billion years to reach earth.

Observers were surprised to find that the light from radio galaxies appears to be red, the colour normally associated with old stars. A galaxy such as B2 0902+34, formed a relatively short time after the birth of the universe, ought to be full of young, blue stars. "It was always very perplexing," Eales said. "People have had to invent theories to wriggle out of the whole problem."

The team at Mauna Kea used a newly developed spectrometer to analyze the infrared light, splitting it into different wavelengths. When they studied the readings they discovered the characteristic infrared signature of oxygen at high temperatures, which led them to conclude that the red colour is produced not by star light but by an emission of hot gas. They believe that the oxygen is heated by a body called an active nucleus, found in all radio galaxies. Essentially a black hole into which gas tumbles, an active nucleus typically produces a great deal of radiation.

Once the research team corrected for this finding, it became clear that the true colour of the star light is in fact the blue typical of a young galaxy. The next step for Eales and his colleagues will be to examine more of these distant radio galaxies to find out whether gas emissions account for the red in other cases.

"Everyone thought these things were quite boring because the red colour suggested they were old objects," Eales said. "But if these really are young galaxies in the process of formation, then maybe we can study them in depth and figure out what's happening in this process. What we really want to understand is how galaxies form and then change as they grow older."

Business Offers Operating Support

MORE PRIVATE SECTOR involvement in medical research at universities may be needed in the future due to a worsening economy, says the head of the Arthritis Society.

Denis Morrice, the society's president and chief executive officer, made the comment following a news conference at Hart House. On May 13 the society announced that Searle Canada Inc. will provide \$510,000 over the next three years in operating support to its 16 rheumatic disease units in Canada. The society will double this amount through fund raising. U of T's Department of Medicine has the largest of the rheumatic disease units with divisions in all its teaching hospitals.

Professor Robert Inman of the Department of Medicine and director of U of T's rheumatic disease

unit said the operating funds are crucial because they allow units to seek research support from other sources. In 1992 his unit, which has an annual operating budget of \$35,000, attracted more than \$2 million in arthritis research funding.

Morrice said that until recently the Arthritis Society had not accepted operating grants from corporations like Searle, a large manufacturer of pharmaceuticals, including arthritis medication. Instead the society relied on its own fundraising campaigns. It feared business partnerships would threaten its autonomy, particularly if companies demanded product use or endorsement in return.

Officials at the Arthritis Society have now changed their minds, mainly because Searle did not make

such requests. In addition, Morrice said, everyone including drug companies has a responsibility to ensure research continues in these tough economic times. "The way I see it, they're in the ball game and so are we so let's get together as a team but let's not be naive about it either." Morrice said that the society's board of directors will oversee the operation of the arrangement to ensure it remains satisfactory to members.

Sydney Jackson, chair of the society, said that in the past the organization committed to research about \$6 million of the \$17 million raised annually. An additional \$600,000 was provided for operating costs of the rheumatic disease units. Decreased donations last year, however, forced the society to "slash funding" for the units.



Members of the University of Toronto community are invited to join
Rose Wolfe, Chancellor
and

Robert J. McGavin, Chair of the Governing Council
at a reception in honour of

JOAN E. FOLEY

at the end of her term as Vice-President and Provost
(1985-1993)

Wednesday, June 9, 1993
5:00 p.m. - 7:00 p.m.

Woodsworth College Courtyard
rsvp 978-1049

Contributions to the **Joan E. Foley Quality of Student Experience Award** can be made by calling the Department of Alumni and Development at 978-8638

THE JOAN E. FOLEY QUALITY OF STUDENT EXPERIENCE AWARD

On June 30, 1993, Professor Joan E. Foley will complete a term of eight years as Vice-President and Provost at the University of Toronto.

In response to a number of inquiries received by the President's Office concerning an appropriate means by which to recognize her service to the University, Professor Foley has herself proposed the creation of an award to recognize outstanding contributions to the improvement of student life at the University of Toronto.

This award will be granted annually to any student, administrative staff or faculty member who by his or her efforts has made a distinctive and lasting contribution to improving the quality of the experience of students at our University. It may recognize contributions in either the academic or the extra-curricular domain of student life. A committee made up of students, faculty, staff, and alumni, with representation from the three campuses of the University will select each year's award recipient. Proceeds from a fund established in honour of Professor Joan Foley will provide for a suitable gift or award. It is intended that the Joan E. Foley Quality of Student Experience Award will form part of the University's annual Awards of Excellence and will be administered by the Department of Alumni and Development and the University of Toronto Alumni Association.

Those wishing to contribute to the fund may send donations to Rivi Frankle, c/o the Department of Alumni and Development, 21 King's College Circle, University of Toronto, Toronto, Ontario, M5S 1A2. Cheques should be made payable to University of Toronto - The Joan E. Foley Quality of Student Experience Award. Contributions will be tax deductible. Receipts for contributions under \$25 will only be issued upon request.



A New Spirit of Giving

A national program to encourage giving and volunteering

Solandt Was Founding Chair of Defence Research Board

BY DAVID TODD

DR. OMOND SOLANDT, THE University's 23rd chancellor, died May 12 at the age of 83.

Though trained as a physician, he enjoyed a varied career in both government and industry. He is perhaps best remembered for his pioneering work in the field of military operational science and for his role in setting up the Defence Research Board of Canada.

Solandt served as chancellor from 1965 to 1971. In his installation address he said that the position afforded him the opportunity to repay a small part of the debt that he owed to the University for his education.



A native of Winnipeg, he began his undergraduate studies in biological and medical sciences at U of T in 1927. He did graduate work in physiology supervised by Professor Charles Best, the co-discoverer of insulin. In 1936 he graduated from the medical school.

Solandt joined the faculty of the University of Cambridge as a lecturer in mammalian physiology in 1939. Soon after the outbreak of the Second World War he was appointed director of the South-West

London Blood Supply Depot. Later during the war, he became involved in studying tank design and the physiological problems common to tank crews. This led him into the emerging field known as operational research — the application of scientific methods to the study of military and other complex systems. He joined the Canadian army as a lieutenant-colonel in 1944.

The following year the British War Office sent him to Japan as a member of a mission to investigate the effects of the atomic bombs dropped on Hiroshima and Nagasaki. After his return the Canadian government offered him the job of establishing a new agency to coordinate defence research for all three armed services. In 1947 he became founding chair of the Defence Research Board where he is credited with building collaborative relationships with scientists in public and private spheres and promoting research related to the Canadian north.

In 1956 he served as vice-president (research and development) at Canadian National Railways. From there he moved on to senior positions with deHavilland Aircraft of Canada Limited, Hawker Siddeley Canada Limited and the Electric Reduction Company of Canada. In 1966 Solandt became founding chair of the Science Council of Canada, an appointment he held for six years.

Over the years his work brought him many honours including the Order of the British Empire and the US Medal of Freedom with Bronze Palm. He held honorary degrees from a dozen Canadian universities, including U of T, and was named a companion of the Order of Canada in 1970.

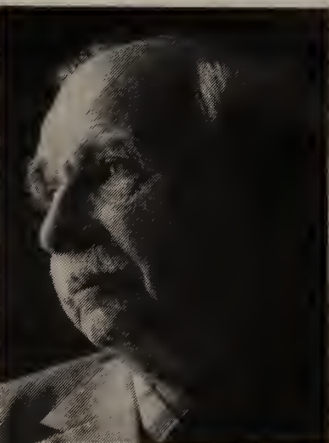
Laycock Active in Social Services

PROFESSOR EMERITUS JOSEPH Laycock of the Faculty of Social Work died in Toronto April 14.

Laycock was born in 1910 in Peel County, near Brampton. In 1935 he graduated from UC with an honours degree in modern history and two years later received a diploma in social work from the University's Department of Social Science. In 1940 he received an MA in political science from U of T. From 1941 to 1946 he served in the Canadian army where he rose to the rank of major in the social service directorate. In 1952 he received a PhD from the University of Chicago School of Social Service Administration.

After teaching at the School of Social Work at McGill University, he joined U of T's social work faculty in 1963.

During the 1950s Laycock served as executive secretary of the Welfare Council of Ottawa where he instituted new services for the sick, aged and destitute. In Toronto he was



active in community services and became president of the Ontario Association of Professional Social Workers in 1968-70.

At U of T he chaired the teaching group in the social services and social policy area. In a letter Charles Hendry, the director of U of T's School of Social Work in the early 1960s, described Laycock as "a formidable scholar and a most influential member of the social work profession in Canada." Laycock retired in 1976.

Governing Council Says No to Retirees

A PROPOSAL TO GIVE RETIRED professors representation on Academic Board has been defeated by Governing Council.

At the April 29 Council meeting members flatly rejected a motion to expand the 118-member Academic Board to include one seat for a representative of professors emeriti. The plan, which would have seen this representative chosen by election, had already won the approval of the board at its Feb. 25 meeting.

The proposal "smacks of tokenism," said Alex Waugh, Woodsworth College vice-principal and registrar, summing up one of the major objections. Some of his colleagues warned against setting a precedent that would encourage other interest groups on campus to seek representation and expressed concern about the time and money involved in organizing an election among the University's far-flung professors emeriti.

Academic Board has been grappling with the issue since last November when members rejected a proposal that would have allowed professors emeriti to serve on University governing bodies as representatives of teaching staff. To qualify as teaching staff a person must be a University employee holding one of several academic ranks. Professor emeritus, however, is an honorary title given to full professors upon re-

tirement, not an academic rank. Approximately 630 people have received this designation since 1976.

Professor Michael Marrus of the Department of History, chair of Academic Board, told Council that the whole debate had left "a bad taste" for many members. The proposal to establish a special constituency for professors emeriti came forward as an alternative way to give retired faculty members a voice in the board's deliberations.

Professor Bill Graham, president of the U of T Faculty Association, pointed out that UTFA's 65-member council includes two seats for professors emeriti. The association has not had any particular difficulties in organizing elections among this group, he added. "They serve honorably and willingly and bring a perspective to the council that we don't get from our present members. Their wisdom and long experience is something that we prize."

Research Fellowships Awarded

EIGHT FACULTY MEMBERS IN the humanities and social sciences have earned Connaught research fellowships for 1993-94. The fellowships, awarded by the Connaught Committee, free recipients from teaching and administrative duties for six months to concentrate on research and provide them with \$5,000 which can be taken as a grant or a stipend.

This year's fellows are: Professors Loren Brandt of the Department of Economics who is studying market reforms and economic development in rural China; Rosemary Coombe of the Faculty of Law whose work concerns intellectual property laws; David Higgs of the Department of History for his study of religion and politics in Brazil from 1777 to 1807;

Heather Jackson of the Department of English who is working on the fifth volume of an edition of the marginalia of Samuel Taylor Coleridge.

And: Professors John Munro of the Department of Economics for his work on inflation, deflation and wage movements in late medieval England and the Low Countries; Thomas Pangle of the Department of Political Science who is considering liberal political theory and the Bible; Fred Wilson of the Department of Philosophy whose research deals with the logic and methodology of scientific research in the field of introspective psychology; and University Professor Ian Hacking of the Institute for History & Philosophy of Science & Technology for his work on styles of reasoning.

ON THE OTHER HAND

B Y N I C H O L A S P A S H L E Y

THE ST. GEORGE MONSTER

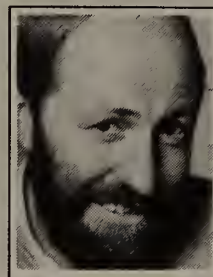
LAST MONTH I PRAISED THE SALUTARY effects of confessing and I encouraged you to drop me a line with your favourite confession. The brave women and men who operate the campus mail service have urged me to ask you to desist or at least to keep your confessions briefer.

Honestly the things that go on at a big-city university! By my calculations all seven of the Deadly Sins and certainly the lion's share of the Ten Commandments are being flouted on an almost daily basis, and that's just at Victoria College. Don't get me started on what they're up to at management studies.

The scope of your sins, and the range of locations in which they are committed, stunned me into almost total silence. The Hart House Debates Room? Croft Chapter House? The pontifical institute? (Okay, I'm just kidding about the pontifical institute.) No one to date has admitted to worshipping graven images but just about everything else appears to be common practice on this campus: covetousness at Cody Hall, gluttony throughout the *Dictionary of Canadian Biography*, envy at the Margaret Fletcher Day Care Centre, sloth at Wycliffe College, pride at the Records of Early English Drama, anger in forestry, and lust everywhere you look.

My one regret about asking for your confessions is that I promised you confidentiality. Pity. It would have made a good column.

Instead let's wish a happy birthday to Fort Book, or the John P. Robarts Research Library, as it is known to almost nobody at all. Twenty years old this year this testament to the power of concrete has its share of detractors. Actually it has its share and a few other buildings' shares as well. Patricia McHugh, in her excellent book *Toronto Architecture: A City Guide*, gropes for a kind word for Robarts and finally settles for "interesting and functional." This is what my wife calls damning with faint



praise. Ms McHugh also notes, "this is the one building in Toronto everyone loves to hate."

This unflattering theme was taken up recently in Canada's national newspaper by architecture know-it-all John Bentley Mays. While acknowledging its glorious contents, Mr. Mays calls the jewel of our library system "Toronto's most universally despised building." He attacks Robarts in the sort of terms that are normally reserved for serial

killers, cult leaders and people who ride bicycles on sidewalks. He goes on: "Everyone I know hates it — the way it looks, the way it was built, its insolence toward everything built around it." And a happy birthday to you too, Mr. Mays.

Now, as passionate as I am about this university and everything in it, I too have my reservations about Robarts. It is a bit, well, big. And it is a bit — how shall I put it? — overbearing. To walk past it on a breezy winter day is to experience an ill wind indeed. On the other hand if you have a young relative who asks you what 100,000 cubic yards of concrete looks like, you've no need to feel stumped.

In any case *de iustibus non disputandum*, as we used to joke in high school. The Big Grey Thing on St. George St. actually has its defenders. I have here a letter from a reader who wishes to remain anonymous. (I can tell you only that he is a good chap and a keen supporter of the Creemore Springs brewery.) This respected faculty member writes, "I like Robarts — and compared to the IBM-card architecture (zoology) to the south and the guts-on-the-outside (Innis) to the north — it's magnificent."

This letter was perhaps the most surprising confession I received in the past month. I refuse to be drawn into the ongoing current debate over gantlets and gauntlets but one of those things has clearly been thrown down. Are there any more supporters of poor old Robarts or are there other candidates for worst building on campus? Please let us know. Confidentiality not guaranteed.

DISEASE CONTROL

A kissing bug with deadly intent comes under scrutiny at U of T

By DAVID TODD

HIS NAME WAS BERTOLDO AND HIS sad fate serves as one of those classic cautionary tales for visitors to Latin America. Stranded in the Venezuelan countryside after the crash of his small crop-dusting plane, he spent the night in a peasant's hut and left the next morning with an unwelcome companion: the microscopic parasite that causes Chagas' disease. Within a few months, according to the literature from the International Association for Medical Assistance to Travellers, he was dead.

A debilitating and sometimes fatal illness for which no cure exists, Chagas' disease represents a serious health problem for the rural poor of South and Central America. As many as 20 million people are thought to be infected with the parasite, which attacks the tissues of the heart and other organs, and another 65 million are considered at risk. One way of preventing the spread of the disease is to control the blood-sucking insects responsible for transmitting the parasite — among them a creature known as *Rhodnius prolixus* or the kissing bug. These efforts may receive a considerable boost from research currently under way at U of T.

Professors Michael Barrett and Ian Orchard of the Department of Zoology are trying to answer a number of questions about the basic physiology of *Rhodnius*. Working in the laboratory with two colonies of these insects, they are studying the processes linked to feeding behaviour that result in transmission of the parasite. Research of this type, Orchard says, is fundamental to the development of safe and



effective pest control methods. "If you can understand insect physiology, particularly the nervous system, then you may be able to design insecticides that are more specific and better for the environment."

Rhodnius, a smooth brownish insect about two centimetres in length, lives on a diet of mammalian blood. Sometimes when it feeds, the creature will pick up the Chagas' parasite from a human or animal carrying the infection and pass it on to later victims. Thousands of these bugs may make their home in the mud walls and thatched roof of a single hut, descending at night upon the sleeping inhabitants; the face is a particularly popular spot to land.

Barrett and Orchard have focused their attention on the actions of serotonin, a neuro-

chemical known to play a role in the feeding behaviour of other invertebrates and vertebrates. Their findings point to a similar connection in the case of *Rhodnius*. Serotonin levels in the insect's blood increase dramatically when it eats, and by gauging the responsiveness of various tissues to the chemical, the researchers have implicated it in a number of feeding-related processes. For example it appears to trigger a change in epidermal cells enabling *Rhodnius* to stretch its abdomen far beyond normal size — a useful adaptation that makes it possible for an insect to consume nine times its own body weight in a single meal.

Once *Rhodnius* has finished feeding on a victim it promptly excretes into the wound — and in doing so may pass on the Chagas' infection. "It's a natural mechanism for the insect to

reduce its overall weight and to concentrate the blood meal," Barrett says. "But if there's a parasite sitting in the insect's hindgut, it will also get released onto the host." Evidence suggests that serotonin is involved in stimulating this process of rapid excretion, known as diuresis.

All of this raises an interesting possibility: if researchers could find ways to disrupt the actions of serotonin, they might be able to alter the insect's behaviour patterns — so that, for example, it would depart the site of the wound without excreting.

Serotonin acts on various tissues by activating receptors on the cell surface that in turn set off further processes within the cell. Interfering with these receptors may hold the key to a control strategy. One of the more exotic possibilities would be to infect insects with a genetically engineered virus programmed to manufacture serotonin receptor proteins. The serotonin released by the insect during feeding might be overwhelmed by the unusually large number of receptors in the tissues and thus prevented from doing its usual work.

A great deal of research still remains to be done in order to characterize various types of serotonin receptors in insects. Barrett also plans to begin a study this summer to determine whether serotonin plays the same role in other blood-feeding insects, such as mosquitoes, that it does in *Rhodnius prolixus*. "Blood-feeding insects are a big problem in terms of human health," he says. "And this issue of the role of serotonin in parasite transmission just hasn't been studied widely enough."



UNIVERSITY OF TORONTO HOLIDAY SCHEDULE 1993-94

The holiday schedule for July 1, 1993 - June 30, 1994 is as follows:

• Canada Day	Thursday, July 1, 1993
• Civic Holiday	Monday, August 2, 1993
• Labour Day	Monday, September 6, 1993
• Thanksgiving Day	Monday, October 11, 1993
• Christmas/New Year	Friday, December 24, 1993 to Friday, December 31, 1993 inclusive
• Good Friday	Friday, April 1, 1994
• Victoria Day	Monday, May 23, 1994

It should be noted that summer hours begin on July 1 and end at Labour Day annually.

To assist in the preparation of academic calendars, **Canada Day in 1994 falls on Friday, July 1, 1994.**

This announcement is not intended to establish service or operating schedules in such divisions as the Central Library, UTCC, or Facilities and Services, where announcements will be made separately. In other areas, certain staff may be required to maintain essential services or to provide service to the public. Staff required to work during holiday periods should be granted compensating time off at a later date.

Supervisors and administrators are requested to schedule holiday staffing arrangements, where required, as far in advance as possible, and are encouraged to consult their personnel officer in Human Resources offices at 215 Huron Street or in decentralized personnel offices for advice. Any questions about the alternative arrangements that should be made for non-unionized administrative staff who are required to work on a scheduled holiday should be directed to the personnel officer assigned to your area. Questions regarding the application of the collective agreements for unionized staff should be directed to the Labour Relations Department of Human Resources at 978-6043.



PARKING FOR CONVOCATION

Parking on the front campus around King's College Circle will be restricted during Convocation (Monday, June 7th, 1993 to Friday, June 18, 1993 inclusive). Holders of regular University of Toronto unreserved parking permits are requested to park in other University lots during this time. For more information, please telephone Parking Services, 978-2336 and 978-1476.



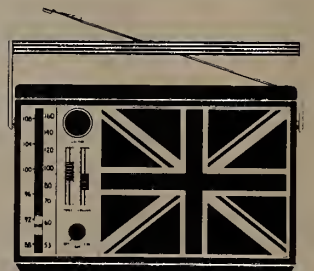
**First District
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Tired of sitting in traffic in a car or lumpy TTC seat? Sit no more! Stand up and take action.... walk to U of T / Hospital area from a house we can sell you in the neighbourhood! Join our growing list of satisfied faculty clients.

Nick Porretta
Broker

Kathy Monahan
Associate Broker

JOLLY GOOD NEWS



BBC News

Monday to Saturday: 8:00 a.m.

Non-commercial Radio
91.1
CJRT-FM

CUTTING A FIGURE

Nancy Reid proves she is not just a statistic in her profession
By SUZANNE SOTO

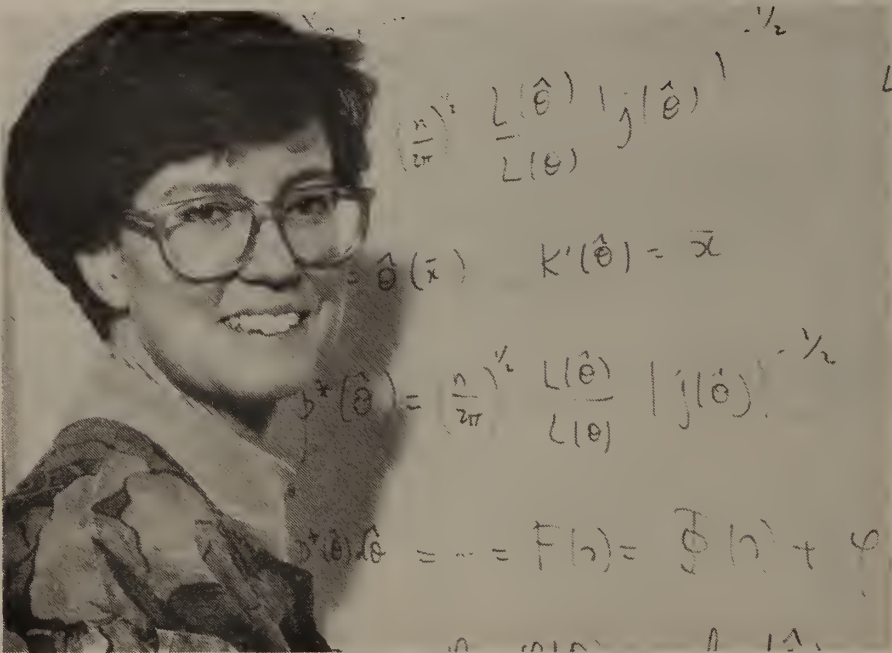
THE YEAR WAS 1972 AND NANCY Reid, midway through an undergraduate degree at the University of Waterloo, was struggling to find a discipline she enjoyed enough to major in.

Her courses in computer science, an area she initially chose because of job opportunities, were not going well. Instead she found herself drawn to percentages and numbers. "The thought crossed my mind that I'd like to be a 'lady math teacher' in a university," recalls the soft-spoken Reid, a professor in the Department of Statistics.

Searching for inspiration she discovered a female mathematics instructor on campus and decided to attend one of her classes. The teacher, however, turned out to be a "rather crusty character," whose hiking boots, cigar and terse manner took the young and naive student by surprise. "I scurried away from class thinking that I couldn't be a lady math teacher after all."

Soon after, however, economist Sylvia Ostry was named chief statistician at Statistics Canada. The highly publicized event struck the confused student like a lightning bolt. An ace in her statistics classes she suddenly realized that a woman could not only be a statistician but also play a significant role in what was then a male domain. Her mind made up she went on to obtain undergraduate and graduate degrees in statistics and to make her mark in the field.

Earlier this year Reid became the first woman and first Canadian university faculty member to receive the president's



award from the Committee of Presidents of Statistical Societies, one of the most prestigious international honours of the statistical profession. While proud of that achievement, she modestly emphasizes that "good luck" had quite a bit to do with receiving the award and indeed much of her success in the profession.

After graduating from Waterloo in 1974 Reid went west in search of adventure and "glamour." While in British Columbia she earned a master's degree from UBC. In 1979 she received her PhD from Stanford University and then spent one year at London's Imperial College for post-doctoral work. It was there

that she worked with Sir David Cox, "probably one of the most famous statisticians alive." In the fall of 1980 Reid finally had the chance to fulfil her undergraduate dream of being a 'lady math teacher' of sorts when UBC offered her a teaching post.

Although she loved the west coast terrain and laid-back lifestyle, she was ready by the mid-1980s to return home to Ontario. In 1986 U of T offered her a position. "I love everything about my job; the teaching, the research and the interaction with people."

Statistics is as enjoyable now as it was earlier in her career. Although not many people realize it, data collection and analysis often affect everyday lives. Reid points out that everything from public opinion polls to product safety tests use statistical principles.

Researchers also find new applications for statistics all the time. In the past few years the field has experienced a surge of growth in the areas of quality control and medicine. North

American car manufacturers, for example, are relying more and more on statistical principles to identify problems on the assembly line while scientists often determine the usefulness of new drugs and treatments based partly on statistical information.

Reid's research focuses on finding better ways to gather and analyze data to narrow the margin of error present in all statistical probes. As in life, she says, variety is the spice of statistics. "It's a bit like journalism, I think, in that we get to learn a little about many different things and that is what makes it so interesting."

HOM A FANIAN

PURCHASING

You Are Invited to the
UNIVERSITY OF TORONTO CHAIR SYMPOSIUM
Sponsored by U of T Purchasing Services

Date: Wednesday, June 2, 1993 Time: 10:00 a.m. to 3:00 p.m.
Location: Earth Sciences Bldg. Lobby, 5 Bancroft Ave.
Seminars (Rm. 1049): "Healthy Seating" — by Steelcase
Guest speaker — Bob Taylor
Time: 10:30 - 11:30 a.m.
12:30 - 1:30 p.m.

"A Healthy, Happy Body" — by Back Seat
Guest Speaker — Bev Wellman
Time: 1:45 - 2:45 p.m.

For more information call 978-6300 or 978-8291.

Preferred Vendor Selection - Records
Destruction:

Shred-It Canada Corp. is the preferred vendor for records destruction services, effective May 1, 1993.

For more information contact G. Wells, 978-7656.

Preferred Vendor Selection - Dry Ice:

The preferred vendor to supply Dry Ice for the period May 1, 1993 to April 30, 1994 is Dry Ice & Gases.

Any inquiries call 978-5174 or 978-8291.

Vendor Recommendation - Audio Visual:

For your audio visual requirements, Purchasing wishes to recommend the following vendor:

Toronto Home Audio Visual Centre,
545 Mt. Pleasant Rd., 481-1717. Please ask for Michele Jaques.

TRAVEL PROGRAMME

Marlin Travel Purchased by
Thomas Cook:

Thomas Cook Group Ltd., one of the world's biggest travel agencies, has recently purchased Marlin Group Ltd., one of the University of Toronto's three preferred travel agencies.

It is anticipated that the combined group will operate under both company names for three to five years, after which they will adopt the Thomas Cook logo.

While our current relationship with the Marlin corporate office and with the staff servicing the corporation will not be changed by this merger, with 350 offices in Canada and 2,000 offices internationally, the new organization will now be able to provide their customers with the local strength of Marlin Travel and the global power of the worldwide Thomas Cook network.

CUSTOMS & TRAFFIC

Invoice Copies:

Departments are reminded that they must keep copies of all inbound and outbound courier and freight bills for reconciling month-end statements. Purchasing will not be able to provide copying services for additional copies of bills. However, should they be needed, departments may obtain copies and information personally from our office files.

Ocean Freight:

Departments wishing to ship ocean freight are encouraged to obtain freight rate quotes from at least 2 shipping agents. The University Opreferred Ocean and Air Freight Agent for International shipments is ATLAS CARGO. Telephone 673-5005.

EQUIPMENT EXCHANGE

Description	Qty.	Model	Age	Fair Mkt. Value	Contact
Chair	1	Balcan Hag	1988	Best Offer	M. Fukunaga 978-6879
Tables, 30" x 60"	3			Best Offers	" "
Carrel, (Seats 4)	1	Pin Wheel Type		Best Offer	M. Fiorillo 978-2984
Hard Drive	1	IBM PCXT5160	1982/83	Best Offer	C. Ford 978-5147
Monitor, Monochrome	1	IBM PC5151	"	"	" "
Mask Aligning System	1	Karl Suss 2323	1990	\$40,000/Best Offer	V. Ravenscroft 978-7733

EVENTS



SEMINARS

cos Specific Endonucleolytic Activity of gpA, the Large Subunit of Bacteriophage λ Terminase.

TUESDAY, MAY 25

Seymon Rubinchik, Department of Molecular & Medical Genetics.

NMR Studies of Structure and Phosphopeptide Recognition by the C-Terminal SH2 Domain of Phospholipase C- γ .

Alex Singer, Department of Molecular & Medical Genetics. 4279 Medical Sciences Building. 2 p.m. *Molecular & Medical Genetics*

Visual Attention, Information Integration and Head Up Displays.

WEDNESDAY, MAY 26

Prof. Christopher D. Wickens, University of Illinois. 211 Rosebrugh Building. 3 p.m. *Industrial Engineering*

Myocardial Calcium Cycling Defects in Congestive Heart Failure.

THURSDAY, MAY 27

Dr. Robert Cory, University of Guelph. 330 Clara Benson Building. 3 p.m. *Physical & Health Education*

Mapping Genomes and Dissecting Complex Traits.

MONDAY, MAY 31

Dr. Eric S. Lander, Whitehead Institute for Biomedical Research, Cambridge, MA. 4279 Medical Sciences Building. 4 p.m. *Molecular & Medical Genetics*



MEETINGS & CONFERENCES

University Affairs Board.

TUESDAY, MAY 25

Council Chamber, Simcoe Hall. 4 p.m.

Governing Council.

THURSDAY, MAY 27

Council Chamber, Simcoe Hall. 4:30 p.m.

Discovering the Human Genome.

MONDAY, MAY 31

Symposium. Mapping Genes and Genomes, Dr. Eric Lander, Massachusetts Institute of Technology; Improving the Human Genetic Linkage Map, Dr. Jean Weissenbach, Institute Pasteur, Paris; T Cell Receptors: Of Mice and Men, Dr. Ben Koop, University of Victoria; Ethical and Social Issues of Human Genome Research, Dr. Eric Juengst, National Center for Human Genome Research, Bethesda. Auditorium, Medical Sciences Building 2 to 5 p.m. *Molecular & Medical Genetics*

Business Board.

MONDAY, MAY 31

Council Chamber, Simcoe Hall. 5 p.m.

Academic Board.

THURSDAY, JUNE 3

Council Chamber, Simcoe Hall. 4:15 p.m.

MUSIC

ROYAL CONSERVATORY OF MUSIC

Evening Series.

FRIDAY, MAY 28

Roxolana Roslak, soprano; and Peteris Zarins, piano. Concert Hall. 8 p.m. Tickets \$9, students and seniors \$6.



EXHIBITIONS

JUSTINA M. BARNICKE GALLERY, HART HOUSE

TO JUNE 17

Páginas.

Lee L'Clerc, paintings. East Gallery

Joe Rosenthal.

Figurative paintings and sculpture. West Gallery. Gallery hours: Monday to Friday, 11 a.m. to 7 p.m.; Saturday and Sunday, 1 to 4 p.m.

THOMAS FISHER RARE BOOK LIBRARY

J.B. Tyrrell: Explorer and Adventurer; The Geological Survey Years, 1881-1898.

TO JULY 30

Original maps, photographs, notebooks and letters as well as printed material documenting Tyrrell's expeditions for the Geological Survey of Canada. Hours: Monday to Friday, 9 a.m. to 4:45 p.m.

CONVOCATIONS

Convocation Hall.

MONDAY, JUNE 7

Faculties of Social Work, Education and Management; honorary graduand David Crombie will address Convocation. 2:30 p.m.

TUESDAY, JUNE 8

School of Graduate Studies; honorary graduand John Meisel will address Convocation. 2:30 p.m.

MISCELLANY

UTS Book Sale

FRIDAY, MAY 28 AND

SATURDAY, MAY 29

Paperbacks, hardcovers, recent textbooks. New and used. Raffle, Saturday, 3 p.m. U of T Schools, Bloor St. W. at Spadina. Friday, 11 a.m. to 8 p.m.; Saturday, 10 a.m. to 4 p.m. *UTS Parents' Association*

Campus Walking Tours.

JUNE 1 TO AUGUST 31

Hour-long tours of the downtown campus conducted by student guides. Tours available in English, French and Chinese. Map Room, Hart House. 10:30 a.m., 1 and 2:30 p.m., Monday to Friday. Information: 978-5000.

DEADLINES

Issue of June 7, for events taking place June 7 to 28: TUESDAY, MAY 25.

Issue of June 28, for events taking place June 28 to July 26: MONDAY, JUNE 14.

BOOKS



The following are books by U of T staff. Where there is multiple authorship or editorship, staff are indicated by an asterisk.

May

Self-Tutor for Computer Calculus Using Maple, by D.C.M. Burbulla and C.T.J. Dodson (Prentice Hall Canada Inc.; 306 pages; \$21.33). Maple is a high-level language for doing mathematics analytically as well as numerically. This text is intended as a self-instructional aid to a computer-assisted first calculus course. Initially it helps students gain confidence using the computer as a study tool for new concepts. Later it can be used as a source of ideas for exploring theory and examples in subsequent studies.

April

Industrial Relations Theory: Its Nature, Scope and Pedagogy, edited by Roy J. Adams and Noah M. Meltz* (Scarecrow Press; 403 pages; \$42.50). Designed as a basic source-book on the nature and scope of

industrial relations theory, this volume is the outgrowth of a meeting of experts in the field who recognized the need for such a book. Its contents cover four major areas: the nature and scope of the subject; the relationship between industrial relations and the social sciences; paradigmatic approaches to industrial relations; and the construction and assessment of theory.

Catching up

North, South and the Environmental Crisis, by Rodney White (University of Toronto Press; 230 pages; \$50 cloth, \$17.95 paper). Since the 1960s, awareness of the serious consequences of environmental neglect has been growing steadily. This book describes the basic scientific changes taking place in the environment in ways that can be understood by non-scientists. It also provides an analysis of the political implications of environmental issues, particularly as they relate to relations between rich and poor countries.

Reading and Writing, by Robertson Davies (University of Utah Press; 80 pages; \$12.95 US). The two essays in this volume were delivered as lectures in the Tanners lectures series at Yale University in 1991. They decry readers satisfied by "junk food for the mind" and other kinds of bad writing and argue that writing of genuine merit is rooted in lasting moral standards.

Parasites, People and Progress, by A. Murray Fallis (Wall & Emerson, Inc.; 160 pages; \$16.50). This book traces the history of research on parasites, the diseases they cause and the growth of parasitology as a research discipline in Canada and the people responsible for it. Much of the information for the more recent history was obtained through interviews with the major persons involved.

Connecting Flight, by Roger Greenwald (Williams-Wallace Publishers; 64 pages; \$9.95). A first collection of poems.



Summer's here on The Patio

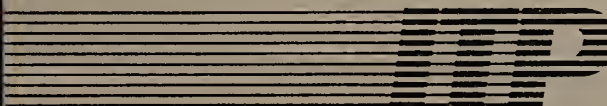
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ACCOMMODATION RENTALS AVAILABLE — METRO & AREA —

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Bloor/Spadina furnished apartments. Renovated. Private entrance: two-level, large one-bedroom, deck, \$1,100 inclusive; small one-bedroom, \$660 inclusive. 10-minute walk to U of T. High ceilings, quiet, graduate, professor. Non-smokers, references. Leave message, 923-9696.

October 1 — April 1. Sublet large, 2-storey, renovated, furnished apartment in a Georgian house in the heart of Riverdale. 3 bedrooms, 2 bathrooms, 2 decks, parking security. \$1,200 inclusive. Call 466-7575.

At Greenwood subway, 20 minutes to U of T. House, 3 bedrooms + sun-room. 2 baths, partially furnished, microwave, laundry, garden, parking. No pets. No smokers. Available August 1. \$1,100/month + utilities. 465-6152.

July 1 to October 15. Danforth/Broadview, subway, 1-bedroom apartment. Non-smoker. Furnished, balcony, great view. Sauna, swimming pool. \$850 inclusive O.B.O. Parking available extra. Call 465-9631.

Beaches (Queen/Woodbine): large, furnished, fully renovated, 5-bedroom executive home on quiet, tree-lined street, 4 bathrooms, 2-car parking, all appliances, central air conditioning, finished rec room. June '93-May/Sept '94, negotiable. 690-6657, 585-6830.

Yonge/Davidsville, architect-renovated, fully furnished home, while owners abroad, September-June or shorter period. 3 stores, 3 bedrooms, 2 1/2 baths, generous storage, big walk-out basement "nanny suite". Open-concept, light everywhere. Quiet street, 5 minutes to subway. Parking, garden, patio, decks, piano, intercom. Quick access University. \$1,700 monthly. Phone/fax 823-6524; after June 7, (705) 756-2905.

To let October 1993. Family home, walk to U of Toronto, minimum 9-month lease. Phone UK 05396-21465 or fax P. Douglas 05396-20788.

11-month rental from mid-September 1993. Large house, Port Credit, furnished, perfect for non-smoking family. 12-minute walk to GO, 20 minutes downtown. 6 bedrooms, Jacuzzi, walk-out to deck and large backyard, 25 metres to Lakeshore Rd., shopping, bus. Near lake. \$1,100 monthly plus utilities. References. 271-3170.

Summer rental. 3 bedrooms, 2 1/2 bathrooms, two storeys, Dufferin/Steeles, minutes to York University, subway; air, deck, central vacuum, family room, piano, 2-car garage. July 1 — August 31. Non-smokers. \$1,500 for summer, plus utilities. 669-4273.

Danforth/Coxwell. Bright, 1-bedroom, furnished, basement apartment; cable, laundry; available immediately, short-term let — \$550 per month. Upper duplex, beautiful furnished 1-bedroom + den; TV, microwave, etc; parking; available June 1, short-term let — \$750 per month. Phone 465-8469.

North Toronto. 4-bedroom home, furnished, quiet neighbourhood, all appliances, garden, finished basement, two-car driveway, close to TTC. No pets/non-smoker(s). September 1993 — April 1994. \$1,100/month plus utilities. 494-1099.

Leaside Towers, 95 Thorncliffe Pk. Dr. Furnished 1-bedroom, 19th floor. Underground parking, TTC, 24-hour service. Air conditioning, pool, valet parking, 24-hour security. July & August only. \$650 per month. Call: Michael Hicks, 467-4806.

High Park, charming furnished Victorian upper duplex, backyard, garage, minutes to subway & downtown. Available July — September. \$745/month inclusive. 1-416-476-5482, 605-4168.

Very private, quiet, fully or partially furnished and equipped 2-bedroom apartment in attractive Victorian house. Upper duplex on two floors, 1 1/2 baths, 6 appliances. Brunswick/Sussex (a safe neighbourhood), minutes walk to campus. Pet/child welcome. Non-smokers. Available immediately for flexible period up to 3 years. \$1,385/month + electricity. 964-7270.

Cheery basement apartment. Refrigerator, stove; private bathroom. Lots of closet space. Separate entrance. Steps to Ossington subway, Bloor. Utilities, cable, laundry included in \$425. Possible to reduce rent for babysitting. No smoking/pets. July 1. 531-4234, leave message.

Admiral Road. Very spacious, light, quiet, sophisticated, 1+ bedroom apartment; 2 decks, fireplace, all appliances. Private. Close to university and hospitals. Parking available. \$1,295/month. 822-4015 days.

Summer rental at Beach. Furnished 3-bedroom Victorian house by the lake. Garden, deck, fireplaces, parking, all appliances. Delightful neighbourhood. Near TTC, shops, cafes, parks. July and August. \$1,500 monthly, inclusive. Call 699-6679

Spacious, fully furnished, luxury condominium apartment. 2 bedrooms, 2 baths en suite, balcony with view (Forest Hill), 5 appliances, AC, recreational facilities, underground parking. Ideal for visiting faculty couple. 10 minutes U of T. Non-smokers. \$1,350 inclusive. 787-8464.

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Bloor/Dovercourt. Bright, renovated, upper duplex on park for September 1. 2-storey, 2-bedroom, large living-room, dining-room, deck, eat-in kitchen, 1 1/2 baths, CAC, laundry, garden, parking, subway. \$1,025 + utilities. 537-9442.

June 18 — August 31. College/Rusholme. Large 2-bedroom apartment in private house. On quiet, tree-lined street. Piano, fireplace, fully furnished, all appliances, enormous backyard. \$900 per month. 534-1956.

Sabbatical rental, High Park. 10-room renovated Edwardian house on quiet crescent, fully furnished, air-conditioned, steps from subway and park, private parking, 4 bedrooms, 2 1/2 bathrooms, spacious study, sun-room, breakfast room, piano, fireplace, art deco projection room with wet bar, bal-

conies and deck, small garden, access to swimming pool and tennis courts. September 1 to June 30. \$2,000/month plus utilities. Call 585-4442 or 767-7888.

Manning Avenue, near Harbord, (U of T: 20-minute walk; Western Hospital: 10 minutes; Bloor subway: 5 minutes). September 1993 to May 1994 (dates negotiable). Comfortable, pretty, three-storey, fully furnished, west Annex house with finished basement. Garage, laundry, enclosed garden. New kitchen, dining-room, 2/3 bedrooms + study. Near schools, public transit, parks, shopping. Suit sabbatical couple or small family. No pets. \$1,200/month + utilities. 534-6054. (After June 6, 534-8940.)

Sabbatical rental, Rosedale (downtown). Furnished 3-storey house (unfurnished also possible), 5 bedrooms, 2 1/2 baths, den, fireplaces, large kitchen, sun-porch, deck, patioed garden, all appliances, garage. Quiet crescent, near bus, shops, parks. June/July 1993 to August 31, 1994. \$2,600+/month. 960-4964.

Sabbatical leave Sept. — December. Three-bedroom furnished house, near Chester subway station. Renovated, garage, garden & sunny deck. 15 minutes to University. \$1,000/month includes utilities. Would suit family or couple. Call 469-1314.

Summer rental — Annex. Walk to U of T. Very large beautifully furnished 3-bedroom; terrace, backyard, fireplace, all amenities. Available July/August by week: \$465/week to responsible couple or family. Call 924-2312, 922-3654.

Davidsville/Yonge. 1-bedroom apartment, beautifully furnished, for three to four months. Air, micro, linens, dishes. \$950. 484-1744.

July 1 to December 31, 1993. 3-bedroom furnished townhouse facing on courtyard. Bayview/Sheppard. Convenient shopping, schools, public transportation. Appliances, parking. 787-7757.

ACCOMMODATION RENTALS REQUIRED

Mature, professional couple seek house in safe/quiet area, approximately June 1 for 1-year post-graduate posting. Going on sabbatical? Investment property? We are impeccably clean, love to garden and care for a home. References available. James J. Bendell, Ph.D. (U of T), M.D. (McMaster), (416) 521-9865 (collect).

Visiting professor from U.S. would like to rent a 1-bedroom furnished apartment, close to U of T, for fall 1993, September — December. Call Toronto 591-8596 or (205) 826-7282, evenings.

ACCOMMODATION SHARED

Annex west. Own bedroom & study in quiet 5-bedroom house. Share with young professor. Non-smoker, no pets. Garden, laundry, hardwood floors. Utilities included, \$450. 537-7257.

On subway, spacious garden apartment to share. Own bath and furnished bedroom. Sports facilities. Very friendly golden lab dog. Shopping centre nearby. Non-smoker. 730-1823.

ACCOMMODATION OVERSEAS

Paris — Montmartre. Perfect sabbatical rental. Sunny, quiet, spacious, modernized, fully equipped, 2-bedroom apartment. Third-floor with elevator, treed courtyard. Art Nouveau fireplace. Excellent shopping/transportation. 20 minutes from Louvre/BN. Available August 1. No pets/smoking. \$2,250 monthly. 978-4882.

BED & BREAKFAST

Windsor, Ontario. Bed and Breakfast near U of W. \$45 single, \$50 double. Quiet, antique furnishings, full breakfast. Call (519) 256-3937.

Bernard/Madison. Elegant English manor with quiet reading nooks. Immaculate, smoke- and pet-free. Healthy breakfasts catering to dietary restrictions. Free parking. From \$55 to \$80. Phone 967-6474.

VACATION / LEISURE

Three miles from Orangeville, century stone 4-bedroom house on wooded 100 acres with stream. July, August or September. \$900/month + utilities. Prefer 2- to 3-month agreement. M. Joy, 978-6538, 233-2628.

Collingwood, Cranberry Village. Luxury townhouse, sleeps 6, pools, tennis, golf, marina, fishing. Available weeks, weekends, May to December. 928-3011, 1-416-476-5482.

Parry Sound. Spacious, well-furnished, 2-bedroom lakefront gem near McKellar. Scenic, treed, peaceful and private. Two decks and dock. Wonderful swimming, fishing. \$700 weekly July and August. \$600 weekly other months. No pets please. 764-8217.

3 BR beautiful stone farmhouse on Georgian Bay, (15 minutes from Owen Sound), 10 acres, privacy. Available from July 15 through Labour Day or portion of that time. Reasonable cost. Call 923-2177 (evenings & weekends) or 923-6641, ext. 2575 (days).

HOUSES & PROPERTIES FOR SALE

The great escape. 120-year-old, restored, 3-bedroom log house. 1 hour north-Mississauga, 20 minutes east-Orangeville, near Luther Marsh and Damascus Lake for boating, fishing and bird watching. 5 acres Christmas trees, 25 acres reforested by MNR, 8 acres maple bush and 50 acres tillable farmland. Apple orchard, newly constructed 2,000 sq. ft. barn with loft. Wonderful, quiet retreat with rustic charm and all conveniences. \$299,000. 277-2906.

Burk's Falls. Beautifully maintained cottage on secluded inlet on Grass Lake; three bedrooms, pine interior, stone fireplace, sliding door to deck, some furnishings. Boat, tent trailer negotiable. Lake frontage: 110 ft. \$109,900. Call Peter Brooks, Stan Darling Real Estate, (705) 382-2902.

Lakefront summer home, tastefully furnished, 1 1/2 baths, canal lake, 2 hours U of

T, boats. \$149,000. Photos: Larry, 865-0200.

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MISCELLANY

Victoria B.C. Real Estate. Experienced, knowledgeable realtor with university faculty references. Will answer all queries and send information about retirement or investment properties in Victoria. No cost or obligation. Call (604) 595-3200 or write Lois Dutton, RE/MAX Ports West, 3200 Shelbourne Street, Victoria, B.C. V8P 5G8.

PERSONAL COUNSELLING in a caring, confidential environment. U of T staff extended health care benefits provide excellent coverage. Dr. Ellen Greenberg, Registered Psychologist. The Medical Arts Building, 170 St. George Street, 961-3683.

ACCENT NEED ADJUSTMENT? Communications enhancement courses in speaking and writing for English as Second Language Speakers with good language skills. Groups of 6-8. Over 1500 satisfied graduates. Now in its 8th year. Gandy Associates. 767-6691.

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Psychologist providing individual, group and couple therapy. Personal and relationship issues. U of T extended health plan covers psychological services. For a consultation call Dr. Heather A. White, 535-9432, 140 Albany Ave. (Bathurst/Bloor).

MAY 29 — WHITEVALE COUNTRY DAYS. Bring the whole family. Tour working mill and picturesque 19th-century village on West Duffin Creek. Giant bake sale, old-time fun in Kids' Alley, craft demonstrations, plant sale, music, refreshments. Located east of Markham at Altona Road/Concession 5.

Women needed for hormone replacement therapy study, conducted by Dr. Marion Powell at Women's College Hospital: 40-60 years, experience hot flashes, no period for at least 6 months. Call Leah, 586-0211.

Art, art, art!!! Painting, drawing and life drawing classes for anyone who wants to create a healthy inner balance in the daily routine. Call 531-7644.

Interested in having a special young guest this summer? One who could help with household chores, play with kids. Professor's daughter from Compiègne, France, is looking forward to your company for a month. Bérenger is 17, quiet, pleasant, comfortable in English. Claire, 978-1143 (daytime), 532-9672 (home).

Experienced clinical psychologist offers counselling and psychotherapy. Practice focuses on anxiety states, depressions and difficulties in interpersonal relations. Dr. S. Camenietzki, 920-5546, St. Clair/Avenue Road.

RESEARCH NOTICES

For further information and application forms for the following agencies, please contact University of Toronto Research Services (UTRS) at 978-2163.

CANADA COUNCIL

The Killam program will consider requests in all disciplines for fellowship support extending over an initial period of up to two years. Killam research fellowships provide partial or full salary replacement to a maximum of \$53,000. Requests must be submitted on the Killam research fellowship application form, available at UTRS. Deadline is June 30.

MEDICINE & LIFE SCIENCES

HEALTH & WELFARE CANADA
NHRDP has received an allocation of \$500,000 per year over the next four years to fund research dealing with healthy babies and childhood injury prevention. A major objective of the current solicitation is to generate practical community-based approaches to reducing conditions of risk for children. The focus is on children who face greater-than-normal risks of poor health, disability or injury. Research proposals must be consistent with one or more of the following areas: prevention and promotion approaches to reduce the incidence of low birth weight babies; prevention and promotion approaches to reduce the incidence of childhood injuries; optimization of perinatal health; promotion of breast-feeding and optimal infant nutrition; promotion of parenting skills and their impact on health. Initial application is by letter of intent, formal application is by invitation. Deadline is May 28.

MEDICAL RESEARCH COUNCIL

Investigators are advised that the development program is closed to phase 1 applications; only previously notified investigators for successful phase 1 submissions will be asked to submit full applications. Deadlines for phase 2 are June 1, September 1, January 1, and April 1.

PHYSICIANS' SERVICES INCORPORATED FOUNDATION

The foundation's granting interests are currently limited to two areas: education of practising physicians, which includes fellowship support, funding of the College of Family Physicians & Surgeons study award program and matching funding of the Royal College of Physicians & Surgeons of Canada clinical traineeship program; and health research, which includes clinical research, medical education research and development at the post-MD level, health systems research and community-based research. Within clinical research any clinical problem will be considered other than cancer, heart and stroke, mental health, drug and alcohol abuse or pharmaceutical drug studies. Other restrictions relating to applicant eligibility, types of support and maximum amount will apply. Investigators are advised to read the foundation's Guide to Submission of Grant Applications which forms part of the current application form (G1-03-92). Deadlines for 1993-94 competitions are June 7, September 7, December 13 and March 21.

SMOKELESS TOBACCO RESEARCH COUNCIL

The council will support independent research that addresses the etiology and pathogenesis of diseases claimed to be associated with smokeless tobacco. Investigators are advised that as the council permits an indirect cost component, the full 12.5 percent should be included in the application budget. Interested investigators are advised to contact the agency directly for the application package. Deadline is June 30.

PHYSICAL SCIENCES & ENGINEERING CANADA COUNCIL

Izaak Walton Killam memorial prizes are intended to honour eminent Canadian scholars actively engaged in research in universities, industry, government or elsewhere in the fields of natural science, medical science and engineering. They are given in recognition of a distinguished career contribution to one of the fields and are not necessarily related to a particular achievement. Only Canadian citizens are eligible and must be nominated. Deadline is June 30.

LAILAW FOUNDATION

The Great Lakes conservation program offers support for programs in the following areas: public involvement in policy and management issues; applied research that is innovative and has public policy relevance; effective cooperative ventures to protect ecologically important near-shore and coastal zone areas

of critical wetland; environmental education/information projects; sound land-management measures to reduce non-point sources of pollution; projects of national significance that fall outside the Great Lakes region but where seed funding would act as a catalyst; community-based sustainable society projects (e.g. recycling, pesticide-free lawns, water conservation, etc.). Grants are normally in the range of \$15,000. Deadline is July 1.

NATIONAL RESEARCH COUNCIL OF CANADA

Booklets and application forms for the research associates program are now available at UTRS. Research associateships are tenable only in NRC laboratories and are intended to give promising scientists and engineers an opportunity to work on challenging research problems in fields of interest to NRC as a stage in the development of their research careers. The initial appointment is normally for a two-year term and may be renewed. Applicants must have received a PhD in natural science or engineering within the last five years or a master's degree in an engineering field within the last five years or expect to obtain the degree before taking up the associateship. Applications will be accepted at any time by NRC and will be held on file for approximately one year.

UPCOMING DEADLINES

Canada Council — Killam memorial

prizes; Killam research fellowships: June 30.

Health & Welfare Canada — (NHRDP) healthy babies and childhood injury prevention research grants (letter of intent): May 28.

Genesis Research Foundation — eating disorders program studentships, fellowships, research grants: June 1 (please note change).

Institute for Risk Research — research grants: June 15.

International Union Against Cancer — Yamaguchi-Yoshida memorial international cancer study grants: June 30.

Laidlaw Foundation — Great Lakes conservation program: July 1.

Charles A. Lindbergh Fund — research grants: June 15.

MRC — development (phase 2 only); university/industry operating grants, clinical trials, research chairs, visiting program, workshops, B.C. Lung/MRC scholar (letter of intent): June 1.

National Alliance for Research on Schizophrenia & Depression — letter of intent: June 15.

National Institutes of Health — new research grants: June 1.

NSERC — E.W.R. Steacie memorial fellowships: June 21.

Physicians' Services Inc. Foundation — research grants: June 7.

Smokeless Tobacco Research Council — research grants: June 30.

Whitaker Foundation — full application: June 15.

PHD ORALS

Graduate faculty please call the PhD examinations office at 978-5258 for information regarding time and location for these listings.

FRIDAY, MAY 28

Jean-Guy Bergeron,
Centre for Industrial Relations,
"Unionization in the Private Service Sector."
Prof. A. Verma.

MONDAY, MAY 31

Nancy Margaret Forestell,
Department of Education,
"All That Glitters Is Not Gold: The Gendered Dimensions of Work, Family and Community in the Northern Ontario Goldmining Town of Timmins, 1909-1950."
Professor R. Pierson.

Salim Abu Rabia,
Department of Education,
"Attitudes and Cultural Background and Their Relationship to Reading Comprehension in L2."
Prof. E. Geva.

Sri Hartati Suradijono,
Department of Education,
"Perception of Own Learning Process Using Learner Controlled Instruction." Prof. W.P. Olivier.

Charlotte Youngson,
Department of Pathology,
"Characterization of the O₂-Sensing Mechanism in Pulmonary Neuroepithelial Bodies and Their Role as Hypoxia-Sensitive Airway Chemoreceptors."
Prof. E. Cutz.

TUESDAY, JUNE 1

Scott I. Fairgrieve,

Department of Anthropology,
"Amino Acid Residue Analysis of Type I Collagen in Human Hard Tissue: An Assessment of Cribra Orbitalia in an Ancient Skeletal Sample from Tomb 31, Site 31/435-D5-2, Dakhleh Oasis, Egypt."
Prof. F.J. Melbye.

Peter Nguyen,
Department of Physiology,
"Metabolic Imaging of Crayfish Motor Neurons and Long-Term Adaptation of Synaptic Transmission."
Prof. H.L. Atwood.

WEDNESDAY, JUNE 2

Sui Hoi Poh,
Department of Education,
"A Study of the Validity of a Self-Estimate Aptitude Scale for Secondary School Students."
Prof. R.E. Traub.

THURSDAY, JUNE 3

Piang Kew Cheah,
Department of Statistics,
"Third Order Approximation in Multiparameter Exponential Models." Prof. D.A.S. Fraser.

Kyung Wha Lawrence Chung,
Department of Computer Science,
"Representing and Using Non-Functional Requirements: A Process-Oriented Approach."
Prof. J. Mylopoulos.

Finn Aage Ekelund,
Department of Political Science,

"Property and Education: Rationality and Autonomy in John Stuart Mill's Social Theory of Cooperation." Prof. E.G. Andrew.

FRIDAY, JUNE 4

Mohamed Salah Ghidaoui,
Department of Civil Engineering,
"Analysis of Discretization Strategies in Fixed-Grid Method of Characteristics Solution in Closed Conduits."
Prof. B.W. Karney.

Khaldoun Rahal,
Department of Civil Engineering,
"The Behaviour of Reinforced Concrete Beams Subjected to Combine Shear and Torsion."
Prof. M.P. Collins.

Michael Treleaven,
Department of Political Science,
"Liberationist Citizenship: Fundamentals of Participation and Discipleship in a Secular Age."
Prof. R.S. Beinc.

MONDAY, JUNE 7

Rosemary Amelia Venn,
Centre for Industrial Relations,
"Alternative Worktime Arrangements: The Compressed Workweek."
Prof. F.J. Reid.

THURSDAY, JUNE 10

Lutchmie Narine,
Department of Community Health, "Prediction of the Financial Performance of Ontario Hospitals." Prof. P. Leatt.

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UNTOLD VICTIMS

Balkan war reports fail to mention that Bosnian Serb women are also brutalized

BY MARSHA HEWITT

LAST FALL THE MEDIA SEIZED UPON THE issue of rape as a "weapon" of war in Bosnia-Herzegovina and since then a number of North American women's groups and prominent feminists have publicly addressed the plight of women in this gruesome civil war.

A recent news story reported that Catherine MacKinnon, an American feminist legal theorist, has agreed to represent "Balkan rape victims." However, these Balkan rape victims include only Bosnian Muslim and Croatian women, not Bosnian Serb women. Many feminists seem to have overlooked the fact that Bosnian Serb women are also victims of the Balkan war and that they too are subject to rape. Yet they are not present in much of the current feminist discourse that appears to mirror the heavily one-sided reporting that has prevailed in the media, where the Serbs are portrayed as almost the sole aggressors and perpetrators of rape in Bosnia-Herzegovina. Bosnian Serb women, it seems, are unworthy of attention and sympathy by virtue of being on the side of Balkan's "bad guys" and the resulting feminist response indicates a surprising lack of critical reflection that ultimately hurts *all* women brutalized in this war.

Not only are Serb women rendered invisible but the suffering of Muslim women becomes ideologically appropriated by complex political agendas that are only interested in furthering their own ends, not in helping raped women. Unless feminists remember that women from all sides in this war are being raped and killed, they unwittingly collaborate in a grotesque contest where victim is pitted against victim, where the suffering of one group of women can only be highlighted through ignoring that of another group.

APPALLED BY THE INJUSTICE OF A SITUATION THAT APPEARS to rank some victims as more worthy of attention than others, I decided last month to go to Serbia and hear from the women themselves. My purpose in recovering their stories is to correct a heavily distorted picture, not to negate or minimize the suffering of any particular group. In telling some of the stories of Bosnian Serbs, I hope to focus attention on the common humanity of women from all sides and to remind feminists what they already know as the result of years of painstaking research: men rape women, and the context of war provides them with free licence to do so.

I spoke with several Bosnian Serb women, refugees uprooted from their homes, coping with the experiences of rape and of having witnessed the murders of their families. I cannot forget the woman in black, 30 years old, who fled her village with two small children after watching the massacre of her husband, her in-laws and other family members. She does not wish to live, she said, but continues to do so for the sake of her little girls; as she spoke, her face looked as if the accumulated misery of the world was concentrated there. Another Bosnian Serb woman, whom I call "Lepa" (beautiful), now a refugee in Belgrade, told of her incarceration in the Viktor Bubanj prison (formerly a barracks) in Sarajevo from May to December 1992 when she and other women were repeatedly raped by Muslim fighters. She avoided pregnancy for a while through the efforts of a Muslim woman friend who provided her with contraceptives as long as she could. Lepa mostly cried as she talked but stopped when she came to the story of Vesna. This woman had in rebellious desperation seriously wounded one of her attackers with a broken glass bottle as he tried to rape her. One of his comrades shot her dead, three bullets in the chest. Lepa, meanwhile, was eventually able to escape, again through the brave efforts of her Muslim friend, and went to Belgrade where she had an abortion. At the time she was just 21.

I also spoke with women in a refugee centre outside Belgrade, who told stories of their escape through forests in eastern Slavonia, terrified after witnessing their neighbours' throats being cut. These women all appeared to be in their seventies but when I asked their age I learned that the oldest among them

was 59. It was difficult to persuade these women to speak at first since they do not trust what westerners will report when they return home. One tearful woman attending Easter services in St. Mark's Church in Belgrade asked that we tell the world that not all Serbs are evil; her two sons died in Bosnia-Herzegovina, their throats cut.



WITH COMBATANTS DISGUISED
IN UNIFORMS OF THE OTHER SIDE,
IT'S DIFFICULT TO PLACE BLAME
FOR WAR CRIMES

During my stay in Belgrade I visited hospitals and an orphanage where I witnessed the effects of the international trade sanctions. Dr. Zoran Milosavljevic, head of the department of neurosurgery at the University Children's Hospital, complained that his staff are unable to provide adequate medical care for their patients due to the severe shortage of antibiotics and medical equipment. Yugoslavia cannot produce its own drugs because most of the required chemicals are imported and currently unavailable. The sanctions are contributing to the collapse of the social fabric in Serbia, with the result that robbery and related crimes are increasing: I saw a child, no more than three years old, covered with severe burns as a result of playing

with gasoline that his parents had stored in their flat for fear of having it stolen from their car, something that happens frequently.

Dr. Milosavljevic spoke of a nine-year-old girl who died after playing with a mine found by her younger brother. The girl's internal injuries prevented her from eating by mouth and the hospital was unable to feed her intravenously and provide the antibiotics necessary to treat her infection. When I asked the doctor what actually killed her, he could not say with certainty if the cause of death was infection, the trauma resulting from severe injury or slow starvation.

There is a terrible equality in human suffering that does not respect national or religious divisions among peoples. One two-year-old refugee child with badly crossed eyes, a Bosnian Croat now living in a Belgrade orphanage, crawled onto my lap and repeated with hopeful excitement, "Mama? Mama?" and gave me big wet kisses on the mouth. He didn't care what religious or ethnic group I belonged to; he just wanted "Mama."

PERHAPS THE WARRING SIDES IN THIS CRUEL CIVIL war have something to learn about our common humanity from this little boy as they pursue their orgiastic inter-nationalistic, intra-ethnic self-destruction. It was not always this way in Yugoslavia; not long ago Yugoslavs lived together in peace. They still speak the same language, still look the same and continue to love each other and intermarry as they have for generations. Yet they are now travelling a path to mass suicide, driven by the only contingency that divides them — religion fused with irrational, hate-filled, empty nationalism.

When any of the combatants disguise themselves in a uniform of the other side — and they all do — it becomes nearly impossible to identify who is doing what to whom, a significant difficulty in assessing quantitative blame for war crimes, including rape. When the western media, women's groups and peace activists unthinkingly indulge in an unsubstantiated numbers game concerning rape victims, the suffering of the women they claim to support becomes as unreal and invisible as if it were altogether ignored. The treatment of rape in this war has become disconnected from the lived reality of raped women who are being exploited further through propaganda manipulation. Yet the war goes on, and women from all sides continue to suffer. In the absence of accurate documentation, we must refrain from speculating about numbers of rape victims from any specific group. Otherwise we participate in the re-victimization of these women by instrumentalizing their suffering for propaganda purposes.

Years of feminist research into violence against women has taught that rape transcends class, religion, ethnicity and race and that in war, *women* are raped as a matter of course, by men of the enemy side as well as by men of their "own side." Feminists have long recognized that rape is violent sexuality where brute, animal force exercised against a powerless victim is experienced as sexy. Freudian psychoanalysis has amplified feminist theory with further insights into the close association between sexuality and aggression. We know that men rape women as well as other men in any number of diverse contexts. This seems to have been forgotten by some feminists in their unwitting participation in the general dehumanization of Serbs as the measure of evil in this particular historical moment.

If feminists allow this unjust situation to continue, if they allow an entire group of women to be written out of history because they belong to the world's "bad guys" or allow rape to be used for political propaganda, they undermine the integrity of a longstanding commitment of feminism to work for the liberation and well-being of *all* women. In that case feminism is doomed to becoming yet another meaningless ideology in the service of patriarchal interests.

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